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L2	1	receiv$3 same information and unidentified same ((digital near2 disc) or DVD) and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:39
L3	170	receiv$3 same (title$1 or volume or ("time stamp" or timestamp) or (number near2 title) or (number near2 chapter$1) or (frame$1 near2 chapter$1)) same ((digital near2 disc) or DVD) and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:39
L4	12	(receiv$3 same (title$1 or volume or ("time stamp" or timestamp) or (number near2 title) or (number near2 chapter$1) or (frame$1 near2 chapter$1)) same ((digital near2 disc) or DVD) and @ad<"20001205") and match$3 and record$1 and database$1 and ((digital near2 disc) or DVD) and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:40
L5	254	(search$3 or select$3) same ((digital near2 disc) or DVD) and match$3 and database$1 and DVD and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:40
L6	3	((search$3 or select$3) same ((digital near2 disc) or DVD) and match$3 and database$1 and DVD and @ad<"20001205") and receiv$3 and ((digital near2 disc) or DVD) and title$1 and volume and ("time stamp" or timestamp) and number near2 title and number near2 chapter$1 and frame$1 and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:41

L7	663	receiv$3 near5 ((digital near2 disc) or DVD) same (title$1 near3 ((digital near2 disc) or DVD)) or (volume near3 ((digital near2 disc) or DVD)) or (("time stamp" or timestamp) near5 ((digital near2 disc) or DVD)) or ((number near2 title) near ((digital near2 disc) or DVD)) or ((number near2 chapter$1) near5 ((digital near2 disc) or DVD)) or (frame$1 near5 ((digital near2 disc) or DVD)) and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:41
L8	0	2 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:41
L9	52	3 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:42
L10	9	3 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:44
L11	2	9 and 10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:44
L12	5	((search$3 or select$3) same ((digital near2 disc) or DVD) and match$3 and database$1 and DVD and @ad<"20001205") and (receiv$3 near5 ((digital near2 disc) or DVD) same (title$1 near3 ((digital near2 disc) or DVD)) or (volume near3 ((digital near2 disc) or DVD)) or (("time stamp" or timestamp) near5 ((digital near2 disc) or DVD)) or ((number near2 title) near ((digital near2 disc) or DVD)) or ((number near2 chapter$1) near5 ((digital near2 disc) or DVD)) or (frame$1 near5 ((digital near2 disc) or DVD)) and @ad<"20001205")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:44
L13	7	707/104.1.ccls. and receiv$3 near5 ((digital near2 disc) or DVD) and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:44

L14		21	(VOB or VOBU) and (search$3 near5 key$1) and ((digital near2 disc) or DVD) and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:44
L15		9	((VOB or VOBU) and (search$3 near5 key$1) and ((digital near2 disc) or DVD) and @ad<"20001205") and receiv$3 and ((digital near2 disc) or DVD) and title$1 and volume and ("time stamp" or timestamp) and number near2 title and number near2 chapter$1 and frame$1 and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:44
L16		7	music adj4 download$3 and receiv$3 and ((digital near2 disc) or DVD) and title$1 and volume and ("time stamp" or timestamp) and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:43
L17		4	(receiv$3 same ((digital near2 disc) or DVD) and title$1 and volume and ("time stamp" or timestamp) and @ad<"20001205") and stor$5 and retriev$5 and information same title$1 and volume and ("time stamp" or timestamp) and number near2 title and number near2 chapter$1 and frame$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:43
L18		14	openglobe.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:48
L19		2	search$3 adj2 key$1 and ((digital near2 disc) or DVD) and title$1 and volume and ("time stamp" or timestamp) and number near2 title and number near2 chapter$1 and frame$1 and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:48
L20		91	music same download$3 and ((digital near2 disc) or DVD) and stor$3 same compar$3 and @ad<"20001205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/07 17:49

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1 Limited vision: the techno-political war to control the future of digital mass media
Craig Birkmaier
August 1997 **netWorker**, Volume 1 Issue 2

Full text available: 📄 pdf(623.50 KB)   Additional Information: full citation, references, index terms

2 Endogenous differentiation of information goods under uncertainty
Robert S. Gazzale, Jeffrey MacKie-Mason
October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**

Full text available: 📄 pdf(294.53 KB)   Additional Information: full citation, abstract, references, index terms

Information goods can be reconfigured at low cost. Therefore, firms can choose how to differentiate their products at a frequency comparable to price changes. However, doing so effectively is complicated by uncertainty about customer preferences, compounded by the fact that the search for a good product niche is carried out in competition with other searching firms.We study two firms that differentiate their information goods.The firms simultaneously compete in product configuration and price. W ...

3 Opportunities for watermarking standards
Fred Mintzer, Gordon W. Braudaway, Alan E. Bell
July 1998 **Communications of the ACM**, Volume 41 Issue 7

Full text available: 📄 pdf(672.37 KB)   Additional Information: full citation, references, citings, index terms, review

4 Approximate query mapping: Accounting for translation closeness
Kevin Chen-Chuan Chang, Héctor García-Molina
September 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3

Full text available: 📄 pdf(661.19 KB)   Additional Information: full citation, abstract, index terms

In this paper we present a mechanism for approximately translating Boolean query constraints across heterogeneous information sources. Achieving the best translation is challenging because sources support different constraints for formulating queries, and often these constraints cannot be precisely translated. For instance, a query [score>8] might be

"perfectly" translated as [rating>0.8] at some site, but can only be approximated as [grade=A] at another. Unlike other work, our ...

Keywords: Approximate query translation, Closeness, Constraint-mapping, Information integration, Mediators

5 PocketLens: Toward a personal recommender system
Bradley N. Miller, Joseph A. Konstan, John Riedl
July 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 3
Full text available: pdf(1.10 MB)   Additional Information: full citation, abstract, references, index terms

Recommender systems using collaborative filtering are a popular technique for reducing information overload and finding products to purchase. One limitation of current recommenders is that they are not portable. They can only run on large computers connected to the Internet. A second limitation is that they require the user to trust the owner of the recommender with personal preference data. Personal recommenders hold the promise of delivering high quality recommendations on palmtop computers, e ...

Keywords: Collaborative Filtering, Peer-to-Peer Networking, Privacy, Recommender Systems

6 Browsing digital video
Francis C. Li, Anoop Gupta, Elizabeth Sanocki, Li-wei He, Yong Rui
April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: pdf(1.53 MB)   Additional Information: full citation, abstract, references, citings, index terms

Video in digital format played on programmable devices presents opportunities for significantly enhancing the user's viewing experience. For example, time compression and pause removal can shorten the viewing time for a video, textual and visual indices can allow personalized navigation through the content, and random-access digital storage allows instantaneous seeks into the content. To understand user behavior when such capabilities are available, we built a software video browsing applicat ...

Keywords: digital video, next-generation video playback interfaces, pause removal, time compression, video browsing, video indexing

7 Session summaries from the 17th symposium on operating systems principle (SOSP'99)
Jay Lepreau, Eric Eide
April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2
Full text available: pdf(3.15 MB)   Additional Information: full citation, index terms

8 What next?: A dozen information-technology research goals
Jim Gray
January 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 1
Full text available: pdf(1.18 MB)   Additional Information: full citation, references, citings, index terms

9 Phase change recording

Henk van Houten, Wouter Leibbrandt

November 2000 **C mmunications of the ACM**, Volume 43 Issue 11

Full text available: pdf(661.19 KB)   Additional Information: full citation, references, index terms

html(35.98 KB)

10 Ultra-high-density data storage: introduction

Lambertus Hesselink

November 2000 **Communications of the ACM**, Volume 43 Issue 11

Full text available: pdf(197.03 KB)   Additional Information: full citation, index terms

html(17.12 KB)

11 Student competition papers: KONEKT: connecting the audience through judging at the Olympic games

Jeremy Canceko, Bradley Caraway, Shung Pak, Ko Nakatsu

April 2004 **Extended abstracts of the 2004 conference on Human factors and computing systems**

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, index terms

Konekt is an interactive voting system that allows audience members that are physically present at the 2004 Athens Summer Olympics to judge and score the athletes during the gymnastics and diving competitions. The goal of the system is to connect audience members to each other through judging to facilitate human-to-human interactions. A handheld device allows all members of the audience to score athletes performances without competing with the technical scorings done by the Olympic judges. We ex ...

Keywords: Greek history, Olympic spirit, animation, branding identity, connection, education, entertainment, experience, hand held device

12 TuxTops Obsidian 30W

Jon Valesh

January 2001 **Linux Journal**

Full text available: html(15.90 KB)   Additional Information: full citation, index terms

13 Putting the U.S. standardization system into perspective: new insights

Bob Toth

December 1996 **StandardView**, Volume 4 Issue 4

Full text available: pdf(172.91 KB)   Additional Information: full citation, abstract, references, index terms

The odds are very high that an American attending an international standardization meeting or consulting in a foreign country will be asked about the U.S. standardization system. How is it organized? Who is responsible for developing standards? How many standards? Who sees to their implementation? What is the government's role? Why is there more than one standard for many commodities? Foreign engineers who are used to dealing with their national standards institute can be very critical of t ...

14 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

15 Documentation and user interface planning for optical information systems

Stephanie Rosenbaum

June 1986 **Proceedings of the 5th annual international conference on Systems documentation**

Full text available: pdf(760.08 KB)   Additional Information: full citation, abstract, references, index terms

From one point of view, I should probably have waited to give this paper at next year's conference. Not many optical-based systems have reached the market yet. I've seen quite a few of the ones that have, and I've talked to some of their authors. But many more are still under development. Even so, I suggested talking about documentation and user-interface planning for optical systems, because I believe communicators can't wait for everyone else to blaze the trail. The products th ...

16 Perception of rotation in depth: the psychophysical evidence (abstract only)

Myron L. Braunstein

January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Full text available: pdf(3.92 MB)   Additional Information: full citation, abstract

There are a variety of ways in which motion in the environment can provide information about three-dimensional relationships. One transformation that has received increasing attention in both the visual perception literature and in the machine vision literature is rotation in depth. This transformation, which includes any rigid rotation other than a rotation about the line of sight, can provide both a strong impression of depth and specific information about three-dimensional relationships in a ...

17 Minimum cuts in near-linear time

David R. Karger

January 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 1

Full text available: pdf(216.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

We significantly improve known time bounds for solving the minimum cut problem on undirected graphs. We use a "semiduality" between minimum cuts and maximum spanning tree packings combined with our previously developed random sampling techniques. We give a randomized (Monte Carlo) algorithm that finds a minimum cut in an m-edge, n-vertex graph with high probability in $O(m \log^3 n)$ time. We also give a ...

Keywords: Monte Carlo algorithm, connectivity, min-cut, optimization, tree packing

18 Computing curricula 2001

September 2001 **J urnal n Educational Res urces in Computing (JERIC)**

Full text available: pdf(613.63 KB)
html(2.78 KB)   Additional Information: full citation, references, citings, index terms

19 Representing and reasoning about change (abstract only)

Reid G. Simmons, Randall Davis
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Full text available: pdf(3.92 MB)   Additional Information: full citation, abstract

A recent trend in artificial intelligence research is the construction of expert systems capable
of reasoning from a detailed model of the objects in their domain and the processes that
affect those objects. We describe a system being built in this fashion, designed to solve a
class of problems known as geologic interpretation: given a cross-section of the Earth's crust
(showing formations, faults, intrusions, etc.), hypothesize a sequence of geologic events
whose occurrence could have formed th ...

20 3D balance in legged locomotion: modeling and simulation for the one-legged case
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Seshashayee S. Murthy, Marc H. Raibert
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

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This paper explores the notion that the motion of dynamically stable 3D legged systems can
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locomotion, and an extra-planar part that accounts for subtle corrective motions that
maintain planarity. The large planar motions raise and lower the legs to achieve stepping,
and they propel the system forward. The extra-planar motions ensure that the legged
system remains in the plane. A solution of this form is s ...

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1 Approximate query mapping: Accounting for translation closeness   ▦
Kevin Chen-Chuan Chang, Héctor García-Molina
September 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3
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3 PocketLens: Toward a personal recommender system   ▦
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July 2004 **ACM Transacti ns on Inf rmation Systems (TOIS)**, Volume 22 Issue 3

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Keywords: Collaborative Filtering, Peer-to-Peer Networking, Privacy, Recommender Systems

4 SpeechSkimmer: a system for interactively skimming recorded speech
Barry Arons
March 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 1

Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Listening to a speech recording is much more difficult than visually scanning a document because of the transient and temporal nature of audio. Audio recordings capture the richness of speech, yet it is difficult to directly browse the stored information. This article describes techniques for structuring, filtering, and presenting recorded speech, allowing a user to navigate and interactively find information in the audio domain. This article describes the SpeechSkimmer system for interacti ...

Keywords: audio browsing, interactive listening, nonspeech audio, speech as data, speech skimming, speech user interfaces, time compression

5 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB)   Additional Information: full citation, references, citings, index terms
html(2.78 KB)

6 Query evaluation techniques for large databases
Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

7 Minimum cuts in near-linear time

David R. Karger

January 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 1

Full text available: pdf(216.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

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Keywords: Monte Carlo algorithm, connectivity, min-cut, optimization, tree packing

8 DVI—a digital multimedia technology

G. David Ripley

July 1989 **Communications of the ACM**, Volume 32 Issue 7

Full text available: pdf(4.55 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A digital presentation technology that manages anything from text to full-motion video has the potential of expanding the usefulness of personal computers, while rendering them less intimidating.

9 Perception of rotation in depth: the psychophysical evidence (abstract only)

Myron L. Braunstein

January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Full text available: pdf(3.92 MB)   Additional Information: full citation, abstract

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10 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

11 DRM experience: Analysis of security vulnerabilities in the movie production and distribution process

Simon Byers, Lorrie Cranor, Dave Korman, Patrick McDaniel, Eric Cronin

October 2003 **Proceedings f the 2003 ACM workshop on Digital rights management**

Full text available: pdf(285.80 KB)   Additional Information: full citation, abstract, references, index terms, review

Unauthorized copying of movies is a major concern for the motion picture industry. While unauthorized copies of movies have been distributed via portable physical media for some time, low-cost, high-bandwidth Internet connections and peer-to-peer file sharing networks provide highly efficient distribution media. Many movies are showing up on file sharing networks shortly after, and in some cases prior to, theatrical release. It has been argued that the availability of unauthorized copies directl ...

Keywords: digital rights management, file sharing, insider attacks, multimedia, physical security, policy

12 Structuring internet media streams with cueing protocols
Jack Brassil, Henning Schulzrinne
August 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 4

Full text available: pdf(282.39 KB)   Additional Information: full citation, abstract, references, citings, index terms

We propose a new, media-independent protocol for including program timing, structure, and identity information in Internet media streams. The protocol uses signaling messages called *cues* to indicate events whose timing is significant to receivers, such as the start or stop time of a media program. We describe the implementation and operation of a prototype Internet radio station which transmits program cues in audio broadcasts using the Real-Time Transport Protocol (RTP). A collection of ...

Keywords: content delivery networks, multimedia signaling, real-time transport protocol (RTP)

13 On randomization in sequential and distributed algorithms
Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar
March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Full text available: pdf(3.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed— that span a wide range of applications, including:primality testing (a classical problem in number theory), interactive probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

14 Representing and reasoning about change (abstract only)
Reid G. Simmons, Randall Davis
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Full text available: pdf(3.92 MB)   Additional Information: full citation, abstract

A recent trend in artificial intelligence research is the construction of expert systems capable of reasoning from a detailed model of the objects in their domain and the processes that affect those objects. We describe a system being built in this fashion, designed to solve a

class of problems known as geologic interpretation: given a cross-section of the Earth's crust (showing formations, faults, intrusions, etc.), hypothesize a sequence of geologic events whose occurrence could have formed th ...

15 3D balance in legged locomotion: modeling and simulation for the one-legged case (abstract only)
Seshashayee S. Murthy, Marc H. Raibert
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

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This paper explores the notion that the motion of dynamically stable 3D legged systems can be decomposed into a planar part that accounts for large leg and body motions that provide locomotion, and an extra-planar part that accounts for subtle corrective motions that maintain planarity. The large planar motions raise and lower the legs to achieve stepping, and they propel the system forward. The extra-planar motions ensure that the legged system remains in the plane. A solution of this form is s ...

16 Knowledge-based animation (abstract only)
David Zeltzer
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Full text available: pdf(3.92 MB)   Additional Information: full citation, abstract

In constructing a goal-directed system for automatic motion synthesis for computer animation, the essential problem is to account for the extraordinary flexibility and adaptability exhibited by moving creatures. The selective *potentiation* and *depotentiation* of elements of a hierarchy of motor control programs is a key to the generation of adaptive motor control. The constraints on motion sequences are analyzed, and mechanisms for achieving continuity of movements are discussed. The ...

17 A multiple track animator system for motion synchronization (abstract only)
D. Fortin, J. F. Lamy, D. Thalmann
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Full text available: pdf(3.92 MB)   Additional Information: full citation, abstract

MUTAN (MUltiple Track ANimator) is an interactive system for independently animating three-dimensional graphical objects. MUTAN can synchronize different motions; it is also a good tool for synchronizing motion with sound, music, light or smell. To indicate moments in time, marks are associated with appropriate frame numbers. MUTAN enables the marks to be manipulated. An animator can also adjust one motion without modifying the others. To make this possible, MUTAN handles several tracks at a tim ...

18 "Graphical marionette" (abstract only)
Carol M. Ginsberg, Delle Maxwell
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Full text available: pdf(3.92 MB)   Additional Information: full citation, abstract

Many person-modelling 3-D animation systems are currently being developed, but often suffer from confusing and elaborate user interfaces. Given over 200 degrees of freedom, the human form is capable of such intricate motion that its specification and display presents considerable difficulty to both animators and animation systems designers. Given such difficulties with single figures, the orchestration of several in parallel remains a major challenge. In pursuit of understanding thoroughly this ...

19 Motion analysis of grammatical processes in a visual-gestural language (abstract only)
Howard Poizner, Edward S. Klima, Ursula Bellugi, Robert B. Livingston

January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Full text available: 📄 pdf(3.92 MB)   Additional Information: full citation, abstract

Movement of the hands and arms through space is an essential element both in the lexical structure of American Sign Language (ASL), and, most strikingly, in the grammatical structure of ASL: it is in patterned changes of the movement of signs that many grammatical attributes are represented. These grammatical attributes occur as an isolable superimposed layer of structure, as demonstrated by the accurate identification by deaf signers of these attributes presented only as dynamic point-light dis ...

20 Perceiving and recovering structure from events (abstract only)
James E. Cutting
January 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue 1

Full text available: 📄 pdf(3.92 MB)   Additional Information: full citation, abstract

How do perceivers identify a moving object as seen against a changing background? How do figure and ground separate? Such questions have engaged psychologists for at least seventy years. In particular, the Gestalt psychologists were deeply concerned with the latter, but had only the illdefined notion of *common fate*, or uniform density, for dealing with the former. The coherent flow of a moving object is seen, somehow, by extracting those aspects of the whole that segregate it from the gro ...

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1 Approximate query mapping: Accounting for translation closeness   ▩
Kevin Chen-Chuan Chang, Héctor García-Molina
September 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3
Full text available: 🔲 pdf(661.19 KB)   Additional Information: full citation, abstract, index terms

In this paper we present a mechanism for approximately translating Boolean query constraints across heterogeneous information sources. Achieving the best translation is challenging because sources support different constraints for formulating queries, and often these constraints cannot be precisely translated. For instance, a query [score>8] might be "perfectly" translated as [rating>0.8] at some site, but can only be approximated as [grade=A] at another. Unlike other work, our ...

Keywords: Approximate query translation, Closeness, Constraint-mapping, Information integration, Mediators

2 A method of geographical name extraction from Japanese text for thematic geographical search   ▬
Yasusi Kanada
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**
Full text available: 🔲 pdf(1.28 MB)   Additional Information: full citation, abstract, references, index terms

A text retrieval method called the thematic geographical search method has been developed and applied to a Japanese encyclopedia called the World Encyclopædia. In this method, the user specifies a search theme using free words, then obtains a sorted list of excerpts and hyperlinks to encyclopedia sentences that contain geographical names. Using this list, the user can also open maps that indicate the locations of the names. To generate an index of names for this searching, a method of ...

3 Computing curricula 2001   ▬
September 2001 **Journal on Educational Res urces in Computing (JERIC)**
Full text available: 🔲 pdf(613.63 KB)
             🔲 html(2.78 KB)   Additional Information: full citation, references, citings, index terms

4 Pocketl.ens: Toward a personal recommender system

Bradley N. Miller, Joseph A. Konstan, John Riedl

July 2004 **ACM Transactions on Informati n Systems (TOIS)**, Volume 22 Issue 3

Full text available: pdf(1.10 MB)   Additional Information: full citation, abstract, references, index terms

Recommender systems using collaborative filtering are a popular technique for reducing information overload and finding products to purchase. One limitation of current recommenders is that they are not portable. They can only run on large computers connected to the Internet. A second limitation is that they require the user to trust the owner of the recommender with personal preference data. Personal recommenders hold the promise of delivering high quality recommendations on palmtop computers, e ...

Keywords: Collaborative Filtering, Peer-to-Peer Networking, Privacy, Recommender Systems

5 Posters: Fast video matching with signature alignment

Timothy C. Hoad, Justin Zobel

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available: pdf(412.06 KB)   Additional Information: full citation, abstract, references, index terms

Video data is stored and distributed in large quantities and a wide variety of formats. As the amount of material increases, so too does the need to manage and search it. In previous work, we addressed the problem of rapidly locating a given clip in a large stream of video by analysing the pattern of edits or cuts, a method that is fast and as effective as a standard search method based on image comparison, but is not very robust, particularly for short clips. In this paper we describe two new m ...

Keywords: copy detection, video representations, video retrieval, video similarity

6 Web of communities: Network arts: exposing cultural reality

David A. Shamma, Sara Owsley, Kristian J. Hammond, Shannon Bradshaw, Jay Budzik

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Full text available: pdf(1 34 MB)   Additional Information: full citation, abstract, references, index terms

In this article, we explore a new role for the computer in art as a reflector of popular culture. Moving away from the static audio-visual installations of other artistic endeavors and from the traditional role of the machine as a computational tool, we fuse art and the Internet to expose cultural connections people draw implicitly but rarely consider directly. We describe several art installations that use the World Wide Web as a reflection of cultural reality to highlight and explore the relat ...

Keywords: culture, information retrieval, media arts, network arts, software agents, world wide web

7 A multi-view intelligent editor for digital video libraries

Brad A. Myers, Juan P. Casares, Scott Stevens, Laura Dabbish, Dan Yocum, Albert Corbett

January 2001 **Proceedings f the first ACM/IEEE-CS j int conference on Digital libraries**

Full text available: pdf(7.73 MB)   Additional Information: full citation, abstract, references, citings, index terms

Silver is an authoring tool that aims to allow novice users to edit di gital video. The goal is to make editing of digital video as easy as text editing. Silver provides multiple coordinated views, including project, source, outline, subject, storyboard, textual transcript and timeline views. Selections and edits in any view are synchronized with all other views. A variety of recognition algorithms are applied to the video and audio content and then are used to aid in the editing tasks. The ...

Keywords: digital video editing, informedia, multimedia authoring, silver, video library

8 Axis-specified search: a fine-grained full-text search method for gathering and structuring excerpts
Yasusi Kanada
May 1998 **Proceedings of the third ACM conference on Digital libraries**

Full text available: pdf(1.35 MB)   Additional Information: full citation, references, citings, index terms

9 Query evaluation techniques for large databases
Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

10 Web searching: WISE-cluster: clustering e-commerce search engines automatically
November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management**

Full text available: pdf(365.41 KB)   Additional Information: full citation, abstract

11 Proximal nodes: a model to query document databases by content and structure
Gonzalo Navarro, Ricardo Baeza-Yates
October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Full text available: pdf(550.43 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard t ...

Keywords: expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras

12 Graphcut textures: image and video synthesis using graph cuts

Vivek Kwatra, Arno Schödl, Irfan Essa, Greg Turk, Aaron Bobick
July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3

Full text available: pdf(23.66 MB)   Additional Information: full citation, abstract, references

In this paper we introduce a new algorithm for image and video texture synthesis. In our approach, patch regions from a sample image or video are transformed and copied to the output and then stitched together along optimal seams to generate a new (and typically larger) output. In contrast to other techniques, the size of the patch is not chosen *a-priori*, but instead a *graph cut* technique is used to determine the optimal patch region for any given offset between the input and outpu ...

Keywords: image and video processing, image-based rendering, machine learning, natural phenomenon, texture synthesis

13 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

14 Web search 1: Searching web databases by structuring keyword-based queries

Pável Calado, Altigran S. da Silva, Rodrigo C. Vieira, Alberto H. F. Laender, Berthier A. Ribeiro-Neto
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available: pdf(204.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

On-line information services have become widespread in the Web nowadays. However, Web users are non-specialized and have a great variety of interests. Thus, interfaces for Web databases must be simple and uniform. In this paper we present an approach, based on Bayesian networks, for querying Web databases using keywords only. According to this approach, the user inputs a query through a simple search-box interface. From the input query, one or more plausible structured queries are derived and su ...

Keywords: query structuring, structured queries, web databases

15 Finding authorities and hubs from link structures on the World Wide Web

Allan Borodin, Gareth O. Roberts, Jeffrey S. Rosenthal, Panayiotis Tsaparas
April 2001 **Proceedings of the tenth international conference n World Wide Web**

Full text available: pdf(269.01 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Bayesian, Kleinberg's algorithm, SALSA, authorities, hubs, link analysis, threshold, web searching

16 Research track papers: Mining and summarizing customer reviews

Minqing Hu, Bing Liu
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(232.21 KB) Additional Information: full citation, abstract, references, index terms

Merchants selling products on the Web often ask their customers to review the products that they have purchased and the associated services. As e-commerce is becoming more and more popular, the number of customer reviews that a product receives grows rapidly. For a popular product, the number of reviews can be in hundreds or even thousands. This makes it difficult for a potential customer to read them to make an informed decision on whether to purchase the product. It also makes it difficult for ...

Keywords: reviews, sentiment classification, summarization, text mining

17 Interactive surfaces: Video-based document tracking: unifying your physical and electronic desktops

Jiwon Kim, Steven M. Seitz, Maneesh Agrawala
October 2004 **Proceedings of the 17th annual ACM symposium on User interface software and technology**

Full text available: pdf(7.33 MB) Additional Information: full citation, abstract, references, index terms

This paper presents an approach for tracking paper documents on the desk over time and automatically linking them to the corresponding electronic documents using an overhead video camera. We demonstrate our system in the context of two scenarios, <i>paper tracking</i> and <i>photo sorting</i>. In the paper tracking scenario, the system tracks changes in the stacks of printed documents and books on the desk and builds a complete representation of the spatial structure of the de ...

Keywords: document recognition, intelligent office, interactive desktop, video analysis

18 Technical session 10: watermarking and multi-media processing: Fingerprinting and forensic analysis of multimedia

Daniel Schonberg, Darko Kirovski
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

One of the prime reasons movie and music studios have ignored the Internet for open-networked multimedia content delivery, has been the lack of a technology that can support a secure digital rights management (DRM) system on a general purpose computer. The difficulty of building an effective multimedia DRM stems from the fact that traditional cryptograic primitives such as encryption or scrambling do not protect audio or video signals once they are played in plain-text. This fact, commonly re ...

Keywords: audio, collusion attack, fingerprinting, forensic analysis, video

19

Web data extraction and structure mining: Schema-guided wrapper maintenance for web-data extraction
Xiaofeng Meng, Dongdong Hu, Chen Li
November 2003 **Pr ceedings of the 5th ACM internati nal w rkshop n Web informati n and data management**

Full text available: pdf(406.19 KB)   Additional Information: full citation, abstract, references, citings, index terms

Extracting data from Web pages using wrappers is a fundamental problem arising in a large variety of applications of vast practical interests. There are two main issues relevant to Web-data extraction, namely wrapper generation and wrapper maintenance. In this paper, we propose a novel schema-guided approach to the problem of automatic wrapper maintenance. It is based on the observation that despite various page changes, many important features of the pages are preserved, such as syntactic patte ...

Keywords: extraction, maintenance, schema, web, wrapper

20 Searching dynamically bundled goods with pairwise relations
Yuan-Chi Chang, Chung-Sheng Li, John R. Smith
June 2003 **Proceedings of the 4th ACM conference on Electronic commerce**

Full text available: pdf(169.51 KB)   Additional Information: full citation, abstract, references, index terms

Economics research has long recognized that bundling enables savings in production and transaction costs, promotes complementary among the bundle components and sorts consumers according to their valuations. Sellers employ market analysis and intelligence to extract the most surplus. In the age of electronic commerce with low product information access cost, buyers can take advantage of the benefits of bundling by performing dynamic composition of goods from multiple companies offering heterogen ...

Keywords: bundle goods, commerce search, relationship graph

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